

acids), soybean lecithin (0.2 pts.wt.) and albumen (10 pts.wt.) was stirred, to which was added milk (180 pts.wt.) and stirred for 2 minutes to give milk contg. fats and oils, which was used as fluid diet. Energy was 133 kcal. Protein content was 6.6 g; lipid was 7.7 and sugar was 8.7 g. There was no problem in taste and appearance.

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Title Terms: MEDICAL; COMPOSITION; CONTAIN; FAT; OIL; MIX; TRI; GLYCERIDE; USEFUL; ACCUMULATE; DOCOSA; HEXENOIC; ACID; ORGAN

Derwent Class: B05; D13; D16

International Patent Class (Main): A61K-031/23

International Patent Class (Additional): A61K-035/12; A61K-035/80;

C12P-007/64; C12R-001-89

File Segment: CPI

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Chemical Fragment Codes (M2):

01 H721 H722 H723 J0 J013 J2 J273 M225 M226 M231 M232 M233 M262 M283
M313 M321 M332 M343 M383 M391 M416 M431 M620 M782 M903 M904 P440
P450 Q220 Q233 R90112-M

Specific Compound Numbers: R90112-M

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Liposomes for drug delivery for treating ischaemic heart diseases - contains membrane forming lipid comprising phosphatidyl- choline contg. docosa-hexaenoic acid

Patent Assignee: SAGAMI CHEM RES CENTRE (SAGA)

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
[JP 8151334]	A	19960611	JP 94291329	A	19941125	A61K-047/24	199633 B

Priority Applications (No Type Date): JP 94291329 A 19941125

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 8151334	A		6			

Abstract (Basic): JP 8151334 A

Liposome contains as membrane-forming lipid comprising a phosphatidylcholine (PC) in which docosahexaenoic acid (DHA) comprises at least 10% of fatty acids.

Pref. phosphatidylcholine is isolated from the skin of cuttlefish and the liposome contg. ascorbic acid ester of DHA (DHA-As).

DHA pref. comprises at least 25% of the fatty acids forming the phospholipid. PC is pref. isolated from cuttlefish (sPC) by extn. with

a solvent (e.g. CHCl₃ or Et₂O) and subsequent adsorption chromatography and ion exchange chromatography. The membrane-forming lipid may contain cholesterol and/or charged lipid (e.g. phosphatidyl ethanolamine, phosphatidylglycerol, phosphatidylserine, phosphatidylinositol, phosphatic acid, stearylamine or fatty acid). The membrane stabiliser is antifreeze agent or antioxidant sterol (e.g. cholesterol or cholestanol), sugar, glycolipid, glycerol, polyethylene glycol, tocopherol or ascorbic acid which may be added in amt. of up to 1 mole for 1 mole PC.

USE/ADVANTAGE - The liposome may be used in delivery of lipophilic and hydrophobic drugs, partic. DHA-As which is useful as a calcium antagonist (WO94/20092) used in treatment of ischaemic heart diseases e.g. angina pectoris, myocardial infarction or hypertension. The liposome is highly stable in the living body. High content of DHA-As can be maintained in the liposome so that the release of DHA-As in the living body can be controlled.

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Title Terms: DRUG; DELIVER; TREAT; ISCHAEMIC; HEART; DISEASE; CONTAIN; MEMBRANE; FORMING; LIPID; COMPRISE; PHOSPHATIDYL; CHOLINE; CONTAIN; DOCOSA; HEXA; ENOIC; ACID

Derwent Class: B05

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International Patent Class (Additional): A61K-009/127; A61K-031/375

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Chemical Fragment Codes (M2):

- *01* F012 F013 F014 F015 F113 H4 H401 H402 H421 H481 H482 H7 H723 H8 J0 J011 J2 J221 J271 J5 J522 L660 L9 L942 L960 M226 M231 M262 M281 M312 M321 M332 M343 M373 M391 M413 M431 M510 M521 M530 M540 M782 M903 M904 Q620 R033 V0 V330 9633-11501-M
- *02* H7 H723 J0 J011 J1 J171 M226 M231 M262 M281 M320 M416 M431 M782 M903 M904 Q620 R033 R04471-M
- *03* B415 B701 B713 B720 B815 B831 H1 H100 H181 H721 H722 J0 J013 J1 J171 J2 J272 M220 M224 M225 M226 M231 M232 M233 M262 M282 M312 M313 M321 M332 M342 M343 M349 M381 M383 M391 M411 M431 M510 M520 M530 M540 M620 M782 M903 M904 Q620 R033 R17037-M
- *04* B415 B701 B713 B720 B815 B831 H1 H181 H721 H722 J0 J012 J2 J272 K0 L7 L722 M210 M211 M225 M231 M262 M273 M282 M283 M312 M313 M321 M332 M342 M343 M383 M392 M411 M431 M510 M520 M530 M540 M620 M782 M903 M904 M910 Q620 R033 V0 V771 R01833-M
- *05* B415 B701 B713 B720 B815 B831 H100 H181 H721 H722 J0 J012 J2 J272 M225 M226 M231 M262 M282 M312 M313 M321 M332 M342 M343 M383 M392 M411 M431 M510 M520 M530 M540 M620 M782 M903 M904 Q620 R033 V0 V771 R08754-M

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